



Deepwater Horizon Incident, Gulf of Mexico

Region 6 REOC Update

Subject: Region 6 Update # 10
Deepwater Horizon Incident, Gulf of Mexico

Date: May 7, 2010

To: Incident Command

Thru: Planning Section

From: Situation Unit

Reporting Period: May 6, 2010 1300 – May 7, 2010 1300

1. Background

Site Name:	Deepwater Horizon Incident	FPN#:	N10036
Mobilization Date:	4/27/2010	Start Date:	4/28/2010

2. Current Situation

- Incident Status Summary as reported by BP for operational period 5/6/10 06:00 – 5/7/10 06:00
 - Oil is currently leaking at a rate of 208 bbls/hr.
 - An estimated total of 67,292 barrels of oil released to date; estimated 5,000 barrels released during this operational period.
 - A total of 193,200 feet of boom deployed to date; 42,000 feet deployed during this operational period.
 - Approximately 12,927 gallons of subsea dispersant applied during Subsea Test 2.

2.1 (USCG) Incident Command Post (Houma, LA)

- On 5/6, coordinated ASPECT flyovers of in situ burn plumes and coordinating ASPECT operations with the Houma Air Operations Group, including providing ASPECT in the Unified Operations.
- Coordinated with CTEH, a BP Environmental contractor, to begin discussion about transitions.
- Coordinated information with Unified Command Health and Safety Unit to include EPA data in unified public health and safety information.
- Reviewed and commented on BP Waste Management and Disposal Plan and coordinated with Environmental Unit Waste Planners.
- PRFA Amendment was recommended for signature by Capt. Stanton and faxed to Area Command for approval.

- In situ burning will continue by the POSC through 2 pm on 5/7. There were 5 burns on 5/6 with an estimated volume of 9000 bbls.
- Teams will perform SCAT on the Chandeleur Islands. Aerial and water-based recon teams are operating in the Grand Isle and Port Fouchon areas to search for multiple oil slicks reported in that area.
- NOAA is continuing to work on long range (2-3 weeks) trajectories.

2.2 (USCG) Area Command Post (Robert, LA)

- Coordinated with ORD, ERT, and EPA Gulf Breeze Laboratory to finalize the monitoring plan for subsea dispersant application.
- Identified an employee from Gulf Breeze who will sail onboard the RV Brooks during the monitoring mission.

2.3 Air Monitoring/Sampling

- EPA continues to conduct air monitoring and sampling in Venice operations area (VOCs and Particulates):
 - Venice, LA - 29.25274 N, 89.35750 W - V02 - located at USCG;
 - Boothville, LA - 29.31449 N, 89.38433 W - V03 - located at Welding Supply Co.;
 - Fort Jackson, LA – 29.35699 N, 89.45487 W – V05.
- EPA continues to conduct air monitoring and sampling in Chalmette operations area (VOCs and Particulates):
 - Chalmette, LA – 29.94562, -89.9721 – C01 - located at Fire Station number 3, near corner of Jackson Street and Judge Perez;
 - Poydras, LA – 29.86609, -89.89108 – C02 - located at Fire Station number 8;
 - Hopedale, LA – 29.82209, -89.60862 – C03 - located at the Emergency Operations Center.
- Each air monitoring location has 4 pieces of air equipment:
 - DataRAM - monitoring particulate matter;
 - AreaRae - monitoring VOCs;
 - PQ200 - samples for PM10 (on 5/6 PQ200 will be replaced with E-BAM air monitors);
 - SUMMA Canisters per location - sample for VOCs.
- All air monitoring/sampling stations are monitored throughout the day (24 hours) for immediate reporting of any elevated VOC or particulate levels. The maximum reading is reported to the OSC at Area Command Post in Venice and Chalmette.
- Real-time air monitoring data from midnight to midnight each day is reviewed for field QA and uploaded into SCRIBE by 1200 each day and available to EPA Headquarters.
- Venice and Chalmette operations reported that air monitoring data did not exceed action levels for VOCs or particulates (PM10) on 5/6. Chalmette did not conduct particulate (PM10), CO, and H2S monitoring conducted at station C02.
- **EPA summary of air monitoring/sampling activities:**

Air Monitoring & Samples	DataRAM (PM10)	AreaRae	SUMMA Canisters	PM2.5	TOTALS FOR 5/6
Venice	3 locs/24-hr	3 locs/24-hr	6	3	9

Chalmette	3 locs/24-hr	3 locs/24-hr	6	3	9
TOTAL TO DATE	6 locs/24-hr	6 locs/24-hr	94	36	

*QAQC samples not included in sample count

2.4 Water/Sediment Sampling

- EPA continues to conduct water and sediment sampling at locations provided by EPA Headquarters and selected through National Coastline Condition Assessment (NCCA) program. The NCCA sample locations are sampled every four years by state agencies with U.S. Coastlines. Sample parameters and locations were also selected in coordination with the EPA Region 6 Water Quality Division.
- Representatives from the Water Division and the REOC Environmental Units from R6 and R4 conduct a conference call three times a week with the HQ EOC to discuss the coordination and consistency of water and sediment sampling across the Deepwater Horizon Incident Response.
- On 5/6, Chalmette water operations collected surface water and sediment samples from two (2) locations near Lake Borgne. Venice water operations collected surface water and sediment samples from eight (8) locations along the southern Louisiana coastline (west of the delta).
- On 5/7, Chalmette water operation team deployed to northern St. Bernard near the mouth of the Pearl River to collect remaining sample locations in that area.
- EPA summary of water/sediment activities:**

Water/Sediment Samples	Water	Sediment	TOTALS FOR 5/6
Venice	8	8	16
Chalmette	3	3	6
TOTAL TO DATE	39	32	

*QAQC samples not included in sample count

2.5 TAGA

- TAGA 1553 continues to perform mobile monitoring for (BTEX) in Southeastern LA – Slidell to Venice. No BTEX observed above low ppbv levels during any monitoring events - the concentrations observed were associated with vehicular traffic or isolated sources.
- TAGA 1554 performs mobile monitoring for (BTEX) in Southern LA and MS - Adley, LA, through Biloxi, MS, to Dauphin Island. No BTEX observed above low ppbv levels during any monitoring events - the concentrations observed were associated with vehicular traffic or isolated sources.

2.6 ASPECT

- On 5/6, ASPECT conducted two overflights on 5/6. A significant burn operation was documented at position 28.6531N 88.3625W (approximately 850 miles southeast of the delta). The burn was reported to be approx 150 feet in diameter with a plume lofting vertically to 3500 ft and moving to the east. Air monitoring data was collected directly over the fire and over the smoke plume. Spectral results of the fire and smoke showed trace levels of methanol, carbon monoxide, and low molecular weight aldehydes.

- On 5/6, ASPECT reported the major boundary of a heavy and large oil mass boundary at 29.8753N, 88.9497W (approximately 7 miles west of north central Chandeleur Islands (Shoalwater Bay)).
- On 5/7, ASPECT is scheduled to conduct two over flights to include air monitoring of oil burning operations, data collection of dispersant operations, photo documentation and oil front reporting.

2.7 Water Quality Protection Division Update

- The Region 6 Water Quality Protection Division provided a situation update including impact analysis, monitoring and assessment, and drinking water (see attached).

2.8 Summary of Air Quality Testing In Residential and Commercial Areas Along the Gulf Coast reported by CTEH (Center for Toxicology and Environmental Health) from 5/6

	# of Measurements	Avg Concentration (ppm)	Maximum Concentration (ppm)
VOCs	412	0	0
Hydrogen Sulfide	384	0	0
Sulfur Dioxide	167	0	0
Benzene	27	0	0
Total	990		

*Benzene and sulfur dioxide measured with detector tubes

	# of Measurements	Avg Concentration (mg/m3)	Maximum Concentration (mg/m3)
Particulate Matter (PM10)	274	0.042	0.116
Total	274		

*PM10 – is particulate matter less than 10 microns

3. EPA Assets

3.1 Current Assets Deployed

- Activated in Dallas, TX
 - REOC is activated
 - SRICT activated
 - RRT activated

Deployed Personnel

Personnel	Dallas, TX	Venice, LA	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Slidell, LA	TOTALS
EPA								
- OSC	4	1		2		1		8

- RSC	12		1	1				14
- PIO			3					3
- Other	5		2		1	1		9
START	5	16				13		34
ERT Contractor		1						1
TAGA Personnel							5	5
ASPECT Personnel							4	4
Other								
TOTALS	26	18	6	3	1	15	9	78

Deployed Equipment

Equipment	Dallas, TX	Venice, LA	Robert, LA	Houma, LA	New Orleans, LA	Chalmette, LA	Slidell, LA	TOTALS
Mobile Command Post		1						1
ASPECT							1	1
TAGA Bus							2	2
LRV			1			1		2
Gooseneck Trailer		1						1
20 KW Generator		1						1

4. Daily Cost Estimates

	EPA Personnel Est. Spent	EPA Travel Est. Spent	EPA Contracts Est. Spent	TOTAL Est. Spent	TOTAL Obligations	TOTAL USCG PRFA Ceiling	Balance	Est. Daily Burn Rate
USCG PRFA FPN N10036	\$112,200	\$41,820	\$830,000	\$643,000	\$984,020	\$884,017	\$86,997	\$123,910
TOTAL EPA Funded	\$112,200	\$41,820	\$830,000	\$643,000	\$984,020	\$884,017	\$86,997	\$123,910
Louisiana Total	\$112,200	\$41,820	\$830,000	\$643,000	\$984,020	\$884,017	\$86,997	\$123,910



Figure 1 – US EPA plane “ASPECT” prepared for takeoff in Biloxi, MS.

The map displays the Gulf of Mexico with the Gulf Islands National Seashore to the east. Key locations marked include New Orleans, Chalmette, Venice, Empire, Port Sulphur, Larose, and Lafitte. Monitoring stations are indicated by blue dots with yellow centers, each labeled with a unique code. For example, stations include T003-2474-100505, T003-1451-100504, T003-1470-100504, T003-1459-100506, T003-2365-100506, T001-1352-100503, T001-1361-100503, T001-1355-100503, T001-2364-100503, T001-2355-100503, T001-1347-100504, T001-2363-100504, T002-001-100501, T002-002-100501, T002-003-100501, T001-001-100501, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-2359-100503, T001-2363-100504, T002-003-100501, T002-002-100501, T001-003-100501, T001-002-100501, T001-001-100501, T001-2414-100502, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-2359-100503, T001-2364-100503, T001-2355-100503, T001-1347-100504, T001-2363-100504, T002-001-100501, T002-002-100501, T002-003-100501, T001-001-100501, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-2359-100503, T001-2364-100503, T001-2355-100503, T001-1347-100504, T001-2363-100504, T002-001-100501, T002-002-100501, T002-003-100501, T001-001-100501, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-2359-100503, T001-2364-100503, T001-2355-100503, T001-1347-100504, T001-2363-100504, T002-001-100501, T002-002-100501, T002-003-100501, T001-001-100501, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-2359-100503, T001-2364-100503, T001-2355-100503, T001-1347-100504, T001-2363-100504, T002-001-100501, T002-002-100501, T002-003-100501, T001-001-100501, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-2359-100503, T001-2364-100503, T001-2355-100503, T001-1347-100504, T001-2363-100504, T002-001-100501, T002-002-100501, T002-003-100501, T001-001-100501, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-2359-100503, T001-2364-100503, T001-2355-100503, T001-1347-100504, T001-2363-100504, T002-001-100501, T002-002-100501, T002-003-100501, T001-001-100501, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-2359-100503, T001-2364-100503, T001-2355-100503, T001-1347-100504, T001-2363-100504, T002-001-100501, T002-002-100501, T002-003-100501, T001-001-100501, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-2359-100503, T001-2364-100503, T001-2355-100503, T001-1347-100504, T001-2363-100504, T002-001-100501, T002-002-100501, T002-003-100501, T001-001-100501, T001-002-100501, T001-003-100501, T001-004-100506, T002-007-100505, T002-1327-100505, T002-1331-100506, T002-1332-100506, T002-008-100506, T003-2354-100502, T003-1337-100502, T003-R001-100502, T002-2350-100503, T003-2456-100504, T003-2346-100506, T002-

SCALE:

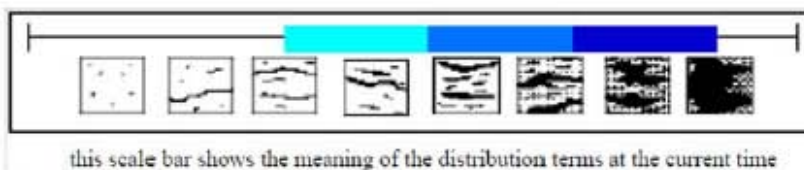
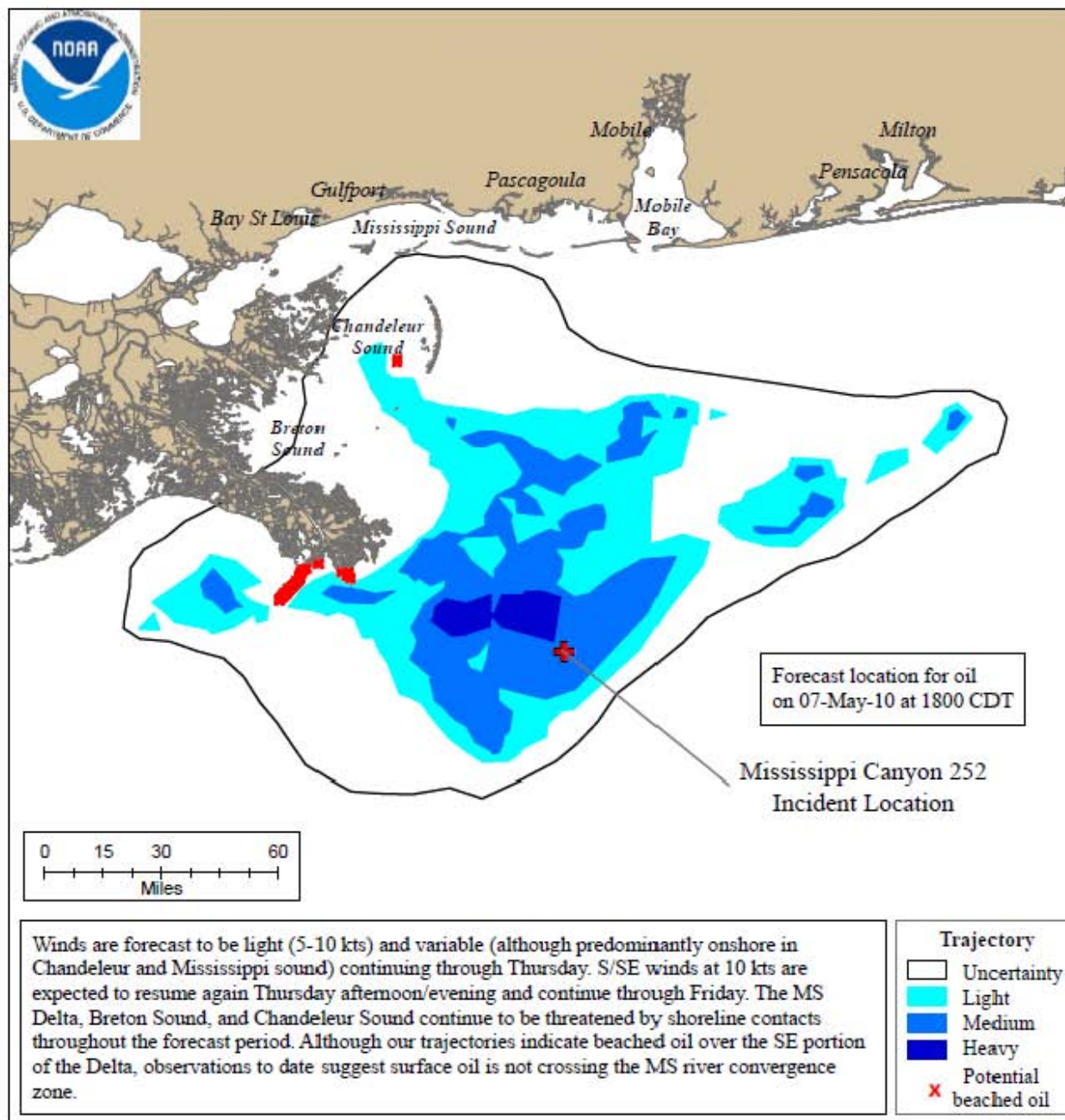
Trajectory Forecast Mississippi Canyon 252

NOAA/NOS/OR&R

Estimate for: 1800 CDT, Friday, 5/07/10

Date Prepared: 2000 CDT, Wednesday, 5/05/10

This forecast is based on the NWS spot forecast from Wednesday, May 5 PM. Currents were obtained from the NOAA Gulf of Mexico, Texas A&M/TGLO, and NAVO/NRL models and HFR measurements. The model was initialized from early morning satellite imagery analysis provided by NOAA/NESDIS and Wednesday overflight observations. The leading edge may contain tarballs that are not readily observable from the imagery (hence not included in the model initialization).



Next
Forecast:
May 6th PM